

Test Information	
Description Instructions Multiple Attempts This test allows multiple attempts.	
orce Completion This test can be saved and resumed later.	
QUESTION 1 What is a state?	1 points Saved
A complete set of parameters required to specify all constants in the system. A complete set of variables required to account for storage of mass, momentum, and energy in a system.	
	ıge
An nth order differential equation.	
O Position and velocity in a spring-mass-damper-system.	

True

False

QUESTION 3

1 points

Saved

Which of the following best describes the relationship between state-space and transfer function modeling?

- State-space models are derived from physical laws, whereas transfer functions are not.
- The two models are complementary.
- The two models are inconsistent.
- State-space modeling is more accurate than transfer function models.

QUESTION 4

1 points

Saved

Which of the following could be elements of the state of an RLC circuit with

♠ Question Completion Status:



- The applied voltage V(t) and the voltage across the capacitor $V_c(t)$.
- The current i(t) and the voltage across the capacitor $V_c(t)$.
- The values of R and L

The initial value of the current, i(0), and the voltage across the capacitor

 $^{\circ}$ $v_{c}(0)$.

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

Save All Answers

Save and Submit